|  |  |  |  |
| --- | --- | --- | --- |
| Mr. Michael T. Davis  Pre-Calculus | | 3.5 Natural Logarithms & Common Logarithms (1)  February 23, 2016 | |
| Name: | |

Natural Logarithm: 

The log base e of x is written in abbreviated form as  without the subscripted e.

Common Logarithm: 

The log base 10 of x is written in abbreviated form as  without the subscripted 10.

Evaluate each logarithmic expression (using a calculator only when you see a \*). Give all decimal approximations rounded to 4 decimal places of accuracy.

|  |  |
| --- | --- |
|  |  |
| 1. \* | 1. \* |
|  |  |
| 1. Given , | 1. Given , |
| 1. \* |  |
| 1. \* | 1. \* |
| 1. True or False:   Given , | 1. True or False: \* |
| 1. \* | 1. \* |
| 1. \* | 1. \* |
| 1. \* | 1. \* |
| 1. \* | 1. \* |
| 1. \* | 1. \* |
|  |  |
|  |  |
|  | 1. \* |
| 1. \* | 1. \* |